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(54) **Semiconductor pressure sensor.**

(57) An absolute pressure transducer includes a hollow glass tube (4) supporting across one end thereof a differential pressure responsive semiconductor plate (2) having piezoresistive elements diffused therein and an evacuated sealed chamber (8) within the tube exposed to the plate (2). Making the transducer (1) and providing the evacuated chamber (8) within the tube (4) adjacent to the plate (2) includes the steps of mounting the plate (2) across the end of the tube (4) to form a first fluid-tight seal therewith, inserting a loose glass plug (6) within the tube to define the chamber (8), exposing the interior of the tube (4) to a vacuum (70), concurrently heating the tube in the vicinity of the plug to allow the heated tube wall (10) to constrict around the plug in response to the internal vacuum and to fuse with the plug to form a second fluid-tight seal therewith and allowing the tube and plug to cool to trap the vacuum in the chamber.

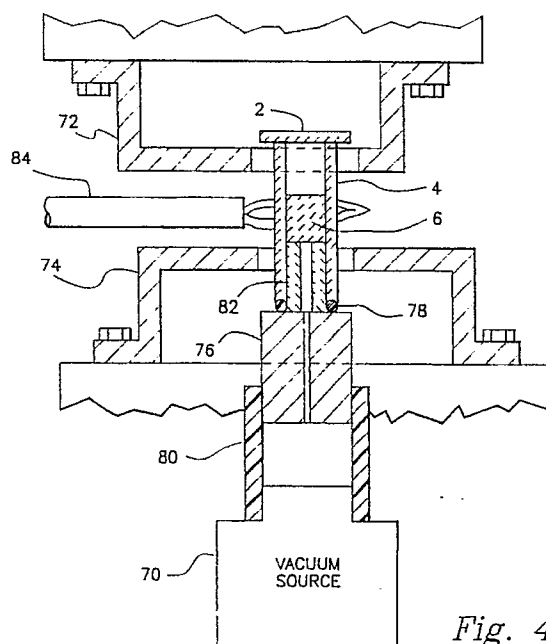


Fig. 4

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EUROPEAN SEARCH REPORT

Application Number

EP 89 10 6383

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-4 109 634 (KURTZ) * Column 2, lines 36-68; column 3, lines 26-40; figure 1 * - - -	4-5	G 01 L 9/06
A	US-A-3 848 329 (IGARASHI et al.) * Column 11, lines 22-68; column 12, lines 1-14; figure 3 * - - -	4-7	
A	DE-A-2 938 240 (HITACHI) * Pages 7-8; fig. * - - - - -	8-9	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 01 L
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 27 March 91	Examiner ZAFIROPOULOS N.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention</div> <div>E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document</div>			